

Amendments to the Specification

1. Please replace the paragraph beginning at page 1, line 4, that starts with "This invention relates to information", with the following amended paragraph:

This invention relates to information technology, and more particularly, to an embedded system program code reduction method and system, which is used for scaling down the total amount of program code that is to be burned into an embedded system for the purpose of reducing the embedded system's memory requirement and also allowing the embedded system to be increased in performance. The program code that is to be scaled down includes a virtual machine, such as Java JAVA Virtual Machine (JVM) or Microsoft MICROSOFT Virtual Machine (MVM), and a set of application programs running on the virtual machine.

2. Please replace the paragraph beginning at page 1, line 12, that starts with "Portable information platforms, such as", with the following amended paragraph:

Portable information platforms, such as mobile phones, PDAs, pagers, etc., are typically based on an embedded controller that integrates a microprocessor and a set of system and application programs in the same device. Presently, a virtual machine, such as Java JAVA Virtual Machine (JVM) or Microsoft MICROSOFT Virtual Machine (MVM) is integrated to the embedded system as a cross-platform foundation for the running of application programs on the information platform. The use of virtual machine allows application programs to have the so-called "write once, run everywhere" capability that allows one version of an application program to run on different types of information platforms installed with different kinds of operating systems. This feature allows software programmers to write just one version of an application program of a specific function, and the application program can then run on different types of information platforms installed with different kinds of operating systems, without having to write many different versions of applications programs for the same functionality.

3. Please replace the paragraph beginning at page 4, line 12, that starts with "The embedded system program code reduction", with the following amended paragraph:

The embedded system program code reduction method and system according to the invention is designed for use to scale down the total amount of program code that is to be burned into an embedded system for the purpose of reducing the embedded system's memory requirement and also allowing the embedded system to be increased in performance. The program code that is to be scaled down includes a virtual machine, such as Java JAVA Virtual Machine (JVM) or ~~Microsoft~~ MICROSOFT Virtual Machine (MVM), and a set of application programs running on the virtual machine.

4. Please replace the paragraph beginning at page 6, line 10, that starts with "The virtual machine 20", with the following amended paragraph:

The virtual machine 20 is, for example, a Java JAVA Virtual Machine (JVM) or a ~~Microsoft~~ MICROSOFT Virtual Machine (MVM), which includes an object library 21, a compiler 22, and a runtime environment 23. Since JVM and MVM are well-known virtual machines in the information industry, detailed description thereof will not be given here in this specification